

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-62

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Iley Lake

NAME OF RESERVOIR

52-14

DATA SHEET NO.

Unnamed trib. of

DAM	1. OWNER <b>Forgerat Iley</b>		2. STREAM <b>Guadalupe River</b>		3. STATE <b>Texas</b>					
	4. SEC. <b>TWP. RANGE</b>		5. NEAREST TOWN <b>Gonzales</b>		6. COUNTY <b>Gonzales</b>					
	7. STREAM BED ELEVATION <b>85.0*</b>		8. TOP OF DAM ELEVATION <b>103.0*</b>		9. SPILLWAY CREST ELEV. <b>100.0*</b>					
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA ACRES	13. ORIGINAL CAPACITY ACRE-FEET	14. GROSS STORAGE ACRE-FEET	15. DATE STORAGE BEGAN				
	a. MULTIPLE USE					1-6-49				
	b. FLOOD CONTROL									
	c. POWER									
	d. WATER SUPPLY	<b>100.0*</b>	<b>12.88</b>	<b>48.97</b>	<b>48.97</b>					
	e. IRRIGATION					1-6-49				
	f. CONSERVATION									
	g. SEDIMENT									
	h. INACTIVE									
17. LENGTH OF RESERVOIR	<b>0.39</b>	MILES		AV. WIDTH OF RESERVOIR	<b>0.05</b>	MILES				
WATERSHED	18. TOTAL DRAINAGE AREA		<b>2.34</b>	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		<b>32.27</b>	INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		<b>2.32</b>	SQ. MI.	23. MEAN ANNUAL RUNOFF		<b>5</b>	INCHES		
	20. LENGTH	<b>3.05</b>	MILES	AV. WIDTH	<b>0.77</b>	MILES	24. MEAN ANNUAL RUNOFF		<b>624</b>	AC.-FT.
	21. MAX. ELEV.		MIN. ELEV.		<b>85.0*</b>		25. CLIMATIC CLASSIFICATION		<b>Subhumid</b>	
	26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. <del>MAXIMUM</del> <del>CONTOUR</del> INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE-FEET	33. C/W RATIO AC.-FT. PER SQ. MI.		
1-6-49 <u>1/</u>	-	-	Contour (D)	2'	12.88	48.97	20.93			
6-6-64	15.42	15.42	"	"	12.88	43.75	18.70			
26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE-FEET			36. WATER INFL. TO DATE AC.-FT.				
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE			
26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET.						
	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR				
6-6-64	5.22	0.34	0.15	5.22	0.34	0.15				
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM				
		a. PERIOD	b. TOTAL TO DATE	a. AV. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
6-6-64	28.3	92	92	0.69	10.66					

\*Assumed.

1/ Original capacity determined by spudding on 1964 survey.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV. ▼	INFLOW AC.-FT.

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
<u>Original</u>						<u>1964</u>		
86	0.02	0.01				90	0.18	0.12
88	0.29	0.27				92	0.73	0.97
90	0.63	1.17				94	1.47	3.12
92	1.00	2.78				96	4.78	9.05
94	2.06	5.78				98	8.70	22.32
96	5.37	12.95				100	12.88	43.75
98	9.04	27.19						
100	12.88	48.97						

47. REMARKS AND REFERENCES  
 Land Use: Cultivated 45%; Pasture & Rangeland 45%; Wooded pasture 10%.  
 Land Resource Area: Blackland  
 C/I Ratio: 0.07  
 Estimated Trap Efficiency: 83%  
 Total annual sediment load adjusted for trap efficiency: 0.18 Ac.Ft./Sq.Mi.-Yr.